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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
09/667,233	. 09/22/2000	MASAO MURADE	106377	1342		
25944	590 12/12/2003		EXAM	EXAMINER		
OLIFF & BERRIDGE, PLC			TON, MINI	TON, MINH TOAN T		
P.O. BOX 199 ALEXANDRI	28 A, VA 22320		ART UNIT	PAPER NUMBER		
	•		2871			

DATE MAILED: 12/12/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

			ation No.	Applicant(s)	Applicant(s)				
Office Action Commons		09/667	7,233	MURADE, MASA	MURADE, MASAO				
	Office Action Summary	Examii	ner	Art Unit	11.1				
#		Toan 1		2871	My				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMUNITY OF THIS COMMUNITY OF THIS COMMUNITY OF THIS FROM THE MAILING BY THE MONTHS FROM THE MAILING BY THE MONTHS FROM THE MAILING BY THE MONTHS FROM THE MONTH OF TH	NICATION. as of 37 CFR 1.136(a). In no amunication. (30) days, a reply within the statutory period will apply and by will, by statute, cause the	event, however, may a rep statutory minimum of thirty (d will expire SIX (6) MONTh application to become ABAI	ly be timely filed 30) days will be considered time IS from the mailing date of this c					
1)🛛	Responsive to communication(s) fi	led on <u>16 July 2003</u> .							
2a) <u></u> □	This action is FINAL.	2b)⊠ This action is	non-final.						
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
5)□ 6)⊠ 7)□	Claim(s) 1-33 is/are pending in the application. 4a) Of the above claim(s) 2-4 and 13-33 is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1 and 5-12 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers								
10)	The specification is objected to by to the drawing(s) filed on is/arc Applicant may not request that any objected Replacement drawing sheet(s) including the oath or declaration is objected	e: a) accepted or ection to the drawing(s ag the correction is req	s) be held in abeyance uired if the drawing(s	e. See 37 CFR 1.85(a). is objected to. See 37 C					
•	inder 35 U.S.C. §§ 119 and 120	to by the Examiner.	Note the attached v	Since Action of form F	10-132.				
a)[* s	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priorit 2. Certified copies of the priorit 3. Copies of the certified copies application from the Internative the attached detailed Office acticknowledgment is made of a claim	y documents have by documents have be of the priority docuonal Bureau (PCT Fon for a list of the ce	een received. een received in Appents have been recule 17.2(a)). ertified copies not re	olication No eceived in this National	-				
si 3 a) 14)∐ A re	nce a specific reference was includ 7 CFR 1.78. The translation of the foreign lacknowledgment is made of a claim ference was included in the first se	ed in the first senter anguage provisional for domestic priority	application has been under 35 U.S.C. § cation or in an Appl	ion or in an Application on received. § 120 and/or 121 since ication Data Sheet. 37	Data Sheet. a specific CFR 1.78.				
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (nation Disclosure Statement(s) (PTO-1449)			nmary (PTO-413) Paper No(rmal Patent Application (PT0					

Application/Control Number: 09/667,233

Art Unit: 2871

Election/Restriction

1. An election of claims species (Ib) and (Ic) directing to claims 1, 5-11 is acknowledged. The application comprises a plurality of patentably distinct species, and thus raises serious burden. Claims 2-4, 13-33 are withdrawn from consideration.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 5-9, 11-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Murade et al (US 6433841).

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Murade discloses a liquid crystal display device comprising (see at least Figure 3, 42): a first substrate having a first alignment layer (not shown); a second substrate opposed to the first substrate, and having a second alignment; a liquid crystal material 50 interposed between the first substrate and the second substrate; a step portion, formed on a surface of at least one of the first alignment layer and the second alignment layer, and downwardly rubbed in a direction of the rubbing process; and a light shielding layer 23 formed in an area facing the step portion that is downwardly rubbed in the direction of the rubbing process, and formed on at least one of the substrate and the second substrate.

Murade discloses the alignment layer(s) having rubbing direction (see at least Figure 3 and Figure 42, col. 56, lines 56-63).

Per claims 5-7 and 11-12, Murade discloses the same structural device as the claimed invention, e.g., a step portion, formed on a surface of at least one of the first alignment layer and the second alignment layer (with rubbing direction similar to the claimed invention).

Per claims 8-9, Murade discloses the device comprising pixel electrodes and insulating layers (planarizing). Process limitations such as "driven with same polarity" and "performed by forming ..." (recited in claim 9) has not been given patentable weight because they have been held that even though product-by-process claims are limited by and defined by process, determination of patentability is based on the product itself.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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Art Unit: 2871

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Murade as applied to claims 1, 5-9, 11-12 above.

It is known in the art to employ a distance between the electrodes being larger than a thickness of the liquid crystal layer for advantages such as large viewing angle. Therefore, it would have been obvious to one of ordinary skill in the art to employ a distance between the electrodes being larger than a thickness of the liquid crystal layer for advantages such as large viewing angle.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan Ton whose telephone number is (703) 305-3489. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

November 24, 2003

TOANTON PRIMARY EXAMINER